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Research Experience:

- Computational fluid dynamics
- Visualization
- Parallel processing

Professor:

- 2001-2004 Associate professor, The University of Tokyo

Visiting Professor:

- 2012- Kobe University
- 2005- Hokkaido University
- 2013- Wakayama University
- 2014- The University of Tokyo

Director:

- 2004-2011 Lab. Head of VCAD system research program, RIKEN.
- 2012- Team leader of Advanced Institute for Computational Science, RIKEN.

Research Engineer:

1990-2001 Vehicle Research Laboratory, Nissan Research Center

Research Fellowships:

- 1991-1994 Visiting Researcher, Fluid Science Institute, Tohoku University.
- 2003 Visiting Researcher, Applied Physics Laboratory, Washington University.

Main Publications:

- Ono, K., Chiba, S., Inoue, S., and Minami, K., Low Byte/Flop Implementation of Iterative Solver for Sparse Matrices Derived from Stencil Computations, Lecture Notes in Computer Science, Vol. 8969, pp. 192-205, 2015.
- Ono, K., Kawashima, Y., and Kawanabe, T., Data Centric Framework for Large-scale High-performance Parallel Computation, Procedia Computer Science, Vol. 29, pp. 2336 – 2350, 2014.
- Nonaka, J., Bi, C., Ono, K., and Fujita, M., 2-3-4 Decomposition Method for Large-Scale Parallel Image Composition with Arbitrary Number of Nodes, Proceedings of the 2014 First International Conference on Systems Informatics, Modelling and Simulation, SIMS '14, pp. 75—80, 2014.
- Ono, K., Kawanabe, T., and Hatada, T., HPC/PF - High Performance Computing Platform: An Environment That Accelerates Large-Scale Simulations, Lecture Notes in Computer Science, Vol.7851, pp.23-27, 2013.
- Bi, C., Sakurai, D., Takahashi, S., and Ono, K., Interactive Control of Mesh Topology in Quadrilateral Mesh Generation Based on 2D Tensor Fields, Lecture Notes in Computer Science, Vol.7432, pp. 726-735, 2012.
- Ito, S., Goto, K., and Ono, K., Automatically optimized core mapping to subdomains of domain decomposition method on multicore parallel environments, Computers & Fluids, 2012.
- Okita, K., Ono, K., Takagi, S., and Matsumoto, Y., Development of High Intensity Focused Ultrasound Simulator for Large Scale Computing, International Journal of Numerical Methods in Fluids, Vol.65, pp. 43-46, 2011.
- Okita, K., Ono, K., Takagi, S., and Matsumoto, Y., Numerical Simulation of the Tissue Ablation in High Intensity Focused Ultrasound Therapy with Array Transducer, International Journal of Numerical Methods in Fluids, Vol.64, pp. 1395-1411, 2010.
- Hashimoto, G., and Ono, K., Interface treatment under no-slip conditions using level-set virtual particles for fluid-structure interaction, Theoretical and Applied Mechanics Japan, Vol. 58, pp.325-342, 2010.
- Ono, K. and Kawashima, Y., Multicolor SOR Method with Consecutive

Memory Access Implementation in a Shared and Distributed Memory Parallel Environment, Lecture Notes in Computational Science and Engineering, Vol. 74, pp. 183-191, 2010.

- Ono, K., Tamaki, T., and Yoshikawa, H., Development of a framework for parallel simulators with various physics and its performance, Lecture Notes in Computational Science and Engineering, Vol.67, pp.9-18, 2009.

Educational Background:

- 1999-2000, Dr. of Engineering in industrial science from Kumamoto University, Japan.
- 1988-1990, MA (Eng.), Kumamoto University, Japan.
- 1984-1988, BA(Eng.), Kumamoto University, Japan.

Awards:

- 2008 The best paper award, The Japan society for Computational Engineering and Science.
- 2007 Performance award, Society of Automotive Engineers of Japan.
- 2001 Asahara academic encouraging prize, Society of Automotive Engineers of Japan.
- 2001 Nissan award, silver medal, Nissan Motor co. ltd.
- 2000 The best paper award, Vehicle Thermal Management Systems.
- 1996 Computer visualization award, Nikkei Science.
- 1996 Art prize, The Visualization Society of Japan.